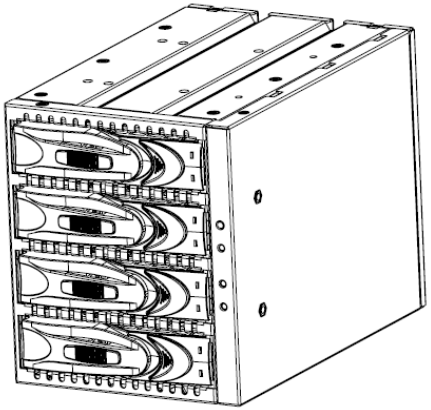
3-4 SAS/SATA II HDD Canister

Entry version

XC-34D1-SA10-0-R



USER'S MANUAL

Document number: MAN-00077-A

Preface

Important Information

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Safety Precautions

Before getting started, please read the following important cautions:

- All cautions and warnings on the equipment or in the manuals should be noted.
- Most electronic components are sensitive to electrical static discharge, therefore, be sure to ground yourself at all times when installing the internal components. Use a grounding wrist strap and place all electronic components in static-shielded devices. Grounding wrist straps can be purchased in any electronic supply store.
- Do not open the system's top cover. If opening the cover for maintenance is a must, only a trained technician should do so. Integrated circuits on computer boards are sensitive to static electricity. Before handling a board or integrated circuit, touch an unpainted portion of the system unit chassis for a few seconds. This will help to discharge any static electricity on your body.
- Place this equipment on a reliable surface when install. A drop or fall could cause injury.
- Please keep this equipment from away humidity.
- Do not leave this equipment in an environment unconditioned, out of operation or storage temperature range may damage the equipment.
- Never pour any liquid into ventilation openings This could cause fire or electrical shock.
- Make sure the voltage of the power source is within the specification on the label when connecting the equipment to the power outlet. The current load and output power of loads shall be within the specification.
- This equipment must be connected to reliable grounding before using.
- Place the power cord out of the way of foot traffic. Do not place anything over the power cord. The power cord must be rated for the product, voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product.
- If the equipment is not used for a long time, disconnect the equipment from mains to avoid being damaged by transient over-voltage.
- Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.
- If one of the following situations arise, the equipment should be checked by service personnel:
  - ✓ The power cord or plug is damaged.
  - ✓ Liquid has penetrated the equipment.
  - ✓ The equipment has been exposed to moisture.
  - ✓ The equipment does not work well or will not work according to its user's manual.

  - ✓ The equipment has been dropped and/or damaged.
  - ✓ The equipment has obvious signs of breakage.
  - ✓ Please disconnect this equipment from the AC outlet before cleaning. Do not use liquid or detergent for cleaning. The use of a moisture sheet or cloth is recommended for cleaning.

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CHAPTER 1 INTRODUCTION

1.1 Key features

- Support four 3.5” SAS and/or SATA II hard disk drives (HDD) on 3 ODD Bays space.
- Support direct HDD Fault LEDs signal input (from HBA Card)
- Support HDD activity LEDs directly from SAS/SATA II HDD
- Enclosure Over-Temperature Alarm (Buzzer and LED)
- Adjustable Over-Temperature Threshold Setting
- Fan Speed Control

1.2 Unpacking list

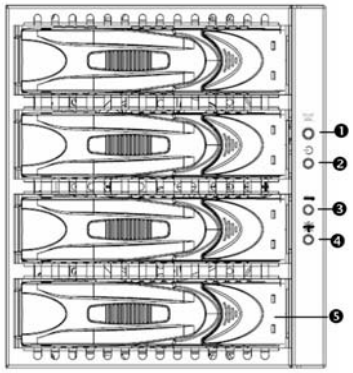
Before removing the subsystem from the shipping carton, visually inspect the physical condition of the shipping carton. Exterior damage to the shipping carton may indicate that the contents of the carton are damaged. If any damage is found, do not remove the components； contact the dealer where the subsystem was purchased for further instructions. Before continuing, first unpack the subsystem and verify that the contents of the shipping carton are all there and in good condition.

The package contains the following items：

- One set with HDD tray x 4 (Shipping without drive devices installed)
- Mounting screws x 1 sets
- Jumper x 2

Note：Inspect the shipping cartons for evidence of physical damage. If a shipping carton appears damaged, request that the carrier’s agent be present when the carton is opened. Keep all contents and packing material for the agent’s inspection.

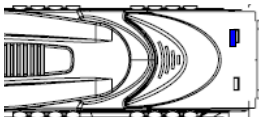
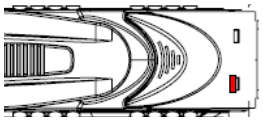
1.3 Front Panel Features



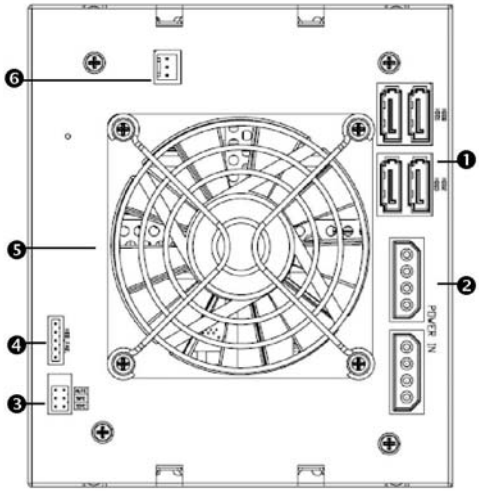
1.3.1 front view of 3 to 4 canister

❶ Buzzer mute	❷ Power LED	❸ Over Temperature LED
❹ Fan Fail LED	❺ Drive tray	

LED indicators

LED NAME	Color definition	Behavior
Power LED	Blue	On：when system is powered on Off：when system is powered off
Over Temperature LED	Red	On：when system temperature exceeds threshold temperature Off：when system temperature is normal.
Fan fail LED	Red	On：when system detected fan abnormality Off：when fan is normal operation
	HDD Activity/Ready： Blue color	On：when HDD is inserted and detected. Flash：when accessing HDD Off：when there is no HDD or no detection.
	HDD Failure： Red color	On：when HDD is detected as failure by host Flash：RAID rebuilding Off：when there is no HDD or normal (only supported on HBA)

1.4 Rear Panel Features



1.4.1 rear view of 3 to 4 canister

❶ SATA connector	❷ Power input connectors
❸ Over-Temp Threshold & Buzzer Setting	❹ HDD Fail LED Input
❺ Fan	❻ Fan connector

More details as below

◆ SATA Connectors

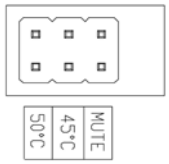
Standard 7Pin SATA connector to link to MB or HBA card.

◆ Power input connectors

Four-pin standard power connectors for +12V/+5V/GND

◆ Over-Temp. Threshold & Buzzer Setting

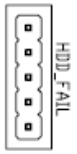
Setting for “Over-Temp.” alarm threshold.



Pin Number	Description
1~2	50℃
3~4	45℃
5~6	Buzzer-Disable*

* If you want to enable Buzzer alarm on Fan and Temperature Failure, this jumper has to be open.

◆ HDD Fail LED Input



Pin Number	Description
1	GND
3	HDD 0 Fail Input
5	HDD 1 Fail Input
7	HDD 2 Fail Input
9	HDD 3 Fail Input

※ For some HBA supporting HDD Fail signal output. If used, this connecter should be connected with HDD Fault signal from HBA by external cable.

※ It’s left to open, as default, when HBA doesn’t support it.

◆ Fan Connectors

Pin Number	Description
1	GND
2	+12V
3	Tach

A 3-pin fan connector with failure detection

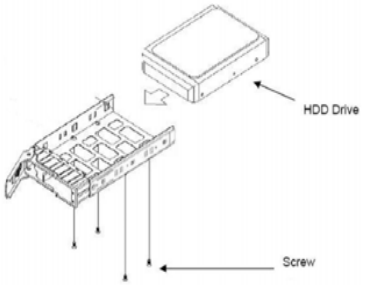
CHAPTER 2 INSTALLATION OVERVIEW

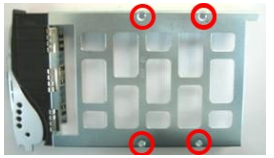
Warning : Before you remove or install the unit, make sure the unit is not turned on or connected to the AC power.

2.1 Removing the HDD Tray from the enclosure

1. Press the latch to the right by the thumb.
2. Pull the tray door outward by the forefinger at the same time.

3. Remove the HDD tray from the enclosure
4. Install the four mounting screws to secure the drive in the disk tray.





Bottom view of HDD tray

5. Slide the tray into a slot. Press the tray handle until the latch is closed and locks into place.